Product datasheet

Specifications

interface plug-in relay - Harmony RSB - 1 C/O - 48 V AC - 16 A - with socket

RSB1A160E7S

Discontinued on: 1 Nov 2020

Discontinued

Main

Range of product	Harmony Relay
Series name	Interface relay
Product or component type	Plug-in relay
Device short name	RSB
Contacts type and composition	1 C/O
Contact operation	Standard
[Uc] control circuit voltage	48 V AC
status LED	Without
[Ithe] conventional enclosed thermal current	16 A at -40…40 °C

Complementary

Average resistance	1550 Ohm network: AC at 20 °C +/- 15 %
[Ue] rated operational voltage	38.4...57.6 V AC 50 Hz 40.8...57.6 V AC 60 Hz
[Uimp] rated impulse withstand voltage	3.6 kV conforming to IEC 61000-4-5
[Ie] rated operational current	16 A (AC-1/DC-1) NO conforming to IEC 8 A (AC-1/DC-1) NC conforming to IEC
[Ui] rated insulation voltage	400 V conforming to EN/IEC 60947
Maximum switching voltage	300 V DC 400 V AC
Drop-out voltage threshold	>= 0.15 Uc AC
Load current	16 A at 250 V AC 16 A at 28 V DC
minimum switching current	5 mA
Maximum switching capacity	4000 VA AC 448 W DC
minimum switching voltage	5 V
Minimum switching capacity	300 mW at 5 mA
Operating time	10 ms between coil de-energisation and making of the Off-delay contact 12 ms between coil energisation and making of the On-delay contact
Mechanical durability	30000000 cycles
Electrical durability	100000 cycles, 16 A at 250 V, AC-1 NO 100000 cycles, 8 A at 250 V, AC-1 NC
Safety reliability data	B10d = 100000

Operating rate	<= 600 cycles/hour under load <= 72000 cycles/hour no-load
Average coil consumption	0.75 VA AC 60 Hz
Protection category	RT I
Operating position	Any position
Device presentation	Complete product
Sale per indivisible quantity	10
Contacts material	Silver alloy (Ag/Ni)
Shape of pin	Flat
Compatibility code	RSB

Environment

Dielectric strength	1000 V AC between contacts 2500 V AC between poles 5000 V AC between coil and contact
Vibration resistance	+/- 1 mm (f= 10…55 Hz) conforming to EN/IEC 60068-2-6
IP degree of protection	IP40 conforming to EN/IEC 60529
Ambient air temperature for operation	-40…70 °C (AC) -40…85 °C (DC)
Standards	EN/IEC 61810-1 CSA C22.2 No 14 UL 508
Product certifications	GOST CSA UL
Marking	CE
Ambient air temperature for storage	-40…85 °C
Shock resistance	10 gn (duration = 11 ms) for not operating conforming to EN/IEC 60068-2-27 5 gn (duration = 11 ms) for in operation conforming to EN/IEC 60068-2-27

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Use Better

Materials and Substances

EU RoHS Directive	Compliant

Use Longer

Lifetime extension

Repair	No

Use Again

Repack and remanufacture

End of life manual availability	No need of specific recycling operations